1313 Skerman Street Denver, Colorado 80203

STATE OF COLORADO



בווכח בחם חיייים FEB 19 1982

	INFORMATI	ON REPORT	County Volore	S
Name of Operation	o Project	Kind of Operation	ine Pice, Co. 81332	
Operator	Phone	Address of Operator		
	Phone 967-7281	Address of Owner		
Person Locally in Cl		Address of Person in (		211080
Fracon To Whom Shall Ann	uda Cupper Co.	If New Operation, Wi		
Products L	Base Metals Market Value	Monthly Rate of Production	240	1982
	20 Township 40 N Rongo 104 ve 15 /ucated at Ric			
Dump or Stockpile Ar		Acres Reclaimed Durin		
Description The of Property by a Operation of No. 10 a Color of the operation of the operat	contractors. J. S. Red contractors. J. S. Red contractors. Boyles on dvilling, both und contract out the bu	l are over s lpath is cul Bros Drilling erground + Sa ulding of a	thes contraction face. The co	done lions, and of the reatment
Buildings	Same as 1981 1	Report.		
Machinery, Compressors, Hoists, Etc.	Equippment Farm	rished by Con	tractors.	MARKA MARKA
Type of Ground Su	pport Square Sets, Pos	1: 1 Caps, Bo	Hs+matz, Pilia	115
Ventilation Geological Format	Vatural Rice			
Size of Vein or Dep		1		
Miscellaneous (Obt	tain a Current Underground Map)			

Joseph W Planes 4 District No. 11 4

	Control of the Contro
	1
	83
	世 生 生
2.77 . 17. 1	British Property
30 3	Flight
Raco Trafect	Kind of Operation
Name of Operation	P.O. BOX 158 Rico, Co 81332
ANaconda Copper Co.	Address of Operator
	same
Owner Phone 967 7281	Address of Owner
Orval L. Jahuhe	Address of Person in Charge
Person Locally in Charge	Continued
To Whom Shall Annual Report Bo Sant	If New Operation, When Did Work Start
S. J Steller	etion Part Time Idla
Products Base Metals	Monthly Rate of Production NONE  Number of Days Operated 240 limited 1983
V.1 . 10 . 1	Number of Days Operated 2 70
Location Section 20 Township 400 Ronge 18 is	
The mine is located at Ri	ca. Ca
I've min.	<b>*</b>
Total Acres Mined During Yee	Acres Reclaimed During Year
	Acres Reclaimed During Year
Dump or Stockpile Area Total Acres 10	Acros Reclaimed During Your  A Their exploration drilling program
Dump or Stockpile Area Total Acres 10  Description The company complete	Acros Reclaimed During Year  A Their exploration drilling program  A Their exploration drilling program
Dump or Stockpile Area Total Acres 10  Description The company complete of Property, w March. At this time to 8 Operation  An other ac	Acros Reclaimed During Your drilling program  the company has 3 people remaining truity is planned in 1983. The water
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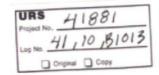


COLORADO DEPARTMENT OF HEALTH Water Quality Control Division 4210 East 11th Avenue Denver, Colorado 80220 (303) 331-4590

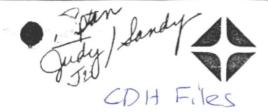
AUG 0 1 1988 WQCD, PERMIT SECTION

### APPLICATION FOR TRANSFER AND ACCEPTANCE OF TERMS OF A COLORADO PERMIT

I hereby apply for transfer to me of this Colorado Permit No. CO-0029793 which was issued to <u>Anaconda Minerals Company</u> . I have reviewed this permit and accept responsibilities, coverage and liability, effective <u>August 30</u> , 1988.
NEW OWNER/OPERATOR Rico Development Corporation, a Colorado Corporation
Facility Name St. Louis Tunnel Mine
Mailing Address P. O. Box 130
City Rico State Colorado Zip Code 81332 County Dolores
Telephone Number (303) 967-2793 Area Code
Authorized Agent Marion D. Sell (Print)
Signature Nous D. Seef
Title President
Date July 26, 1988
AS previous owner, I hereby agree to the transfer of the above-referenced permit and all responsibilities thereof.
PREVIOUS OWNER/OPERATOR Anaconda Minerals Company
Facility Name St. Louis Tunnel Mine
Authorized Agent T. H. Parker or Omer Adams (Print)
Signature Jullul
Title Vice President
Date
EPA CLOSEOUT COPY



ANACONDA Minerals C 555 Sevent th Street
Denver. Colorado 80202
Telephone 303 293 4000



August 29, 1988

Mr. James B. Horn
District Engineer
Water Quality Control Division
Colorado Department of Health
222 So. 6th Street, Room 232
Grand Junction, Colorado 81501

SEP 0 1 1988
WOCD, PERMIT SECTION

RE: CPDES Permit No. CO-0029793, Annual Inspection Report

Dear Mr. Horn:

This letter is written in response to your July 29, 1988 letter and July 6 site inspection of our wastewater treatment facility located near Rico, Colorado. In your letter, you confirmed that the facility was "...being properly operated" as stated in the June 30 annual inspection report. You then you went on to provide three recommendations. The following is our response to your three recommendations:

"Accumulation of solids in the first two settling ponds"

We agree that there is an accumulation of solids within the first two settling ponds. That is the purpose for which these ponds were designed. In time, it will become necessary to remove the solids in order to maintain the treatment efficiency of the pond system. However, based on data collected at the pond discharge, it appears that the system is functioning very well at the present time and is in full compliance with the suspended solids limit of 20 mg/l avg. and 30 mg/l max. In fact, the discharge normally carries TSS values well below the permit limit, in the range of less than 2 mg/l. Therefore, even though there may be some short-circuiting occurring in the first two ponds, any carry over of solids is not being reflected at the discharge point.

Additionally, it should be noted that most of the solids contained in the first two ponds are unreacted lime associated with relatively poor treatment efficiencies obtained by the old treatment system which was replaced by Anaconda in the fall of 1986. The new lime slaking system has markedly reduced the "wasting" of unreacted lime in the settling ponds and should extend their usable storage life.

Mr. James B. Horn August 29, 1988 Page 2

### 2. "Pond leakage"

Installation of a flow measuring device at the St. Louis Tunnel would be of marginal value in increasing our understanding of the potential impact of pond leakage. As you are aware, these settling ponds, located along the Dolores River, were constructed many years ago in unconsolidated materials underlain by a major geothermal fault. Anaconda recognized the complex geology associated with this area soon after our purchase of the property in the early 1980's and initiated a major water quality study of the Dolores River system to better understand the relationship of the settling ponds to the River. The results of our investigations are on record in your Division offices in Denver. As you will note from review of these extensive water quality investigations, there is no measurable impact on water quality in the Dolores River adjacent to the treatment ponds.

### 3. "Discharging geothermal wells"

In the early 1980's Anaconda capped the existing artesian wells located along the access road to the treatment facility. Recently, a couple of the capped well casings apparently failed. While the artesian flows from these wells may have added increased dissolved solids to the surface water system, the increase was most likely minimal and of little consequence. The Dolores River intersects a geothermal fault zone which appears to be the source of the artesian flows which naturally flow into the river via numerous hot springs located along the river's banks and within the actual substrate of the streambed. This phenomenon is evidenced by the occurrence of bubbles of carbon dioxide in the river substrate and throughout the lower series of treatment ponds.

As I discussed with you on August 3, we agreed that the wells should be capped. On August 8, we installed a new ditch and associated culvert which diverted the artesian flows into the permitted treatment pond system until the wells could be capped.

With the assistance of an outside drilling contractor, both wells were grouted and recapped on August 15. As an added safety precaution, we intend to maintain the drainage ditch even though the wells are no longer flowing. Should any future seepage from the well heads develop, the flows will be diverted directly into the final treatment pond for treatment prior to discharge into the Dolores River.

Mr. James B. Horn August 29, 1988 Page 3

Jim, I would like to express my appreciation for the assistance you have given Anaconda and the new owner, Rico Development Corporation, on this matter over the last couple of weeks. Hopefully, we have addressed the recommendations cited in your letter and resolved the problems associated with the artesian wells. If you would like to discuss these matters further or need additional information, please don't hesitate to give me a call. I can be reached at 293-7938.

Sincerely,

Robert L. Dent

Minerals Environmental Manager

(303) 293-7938

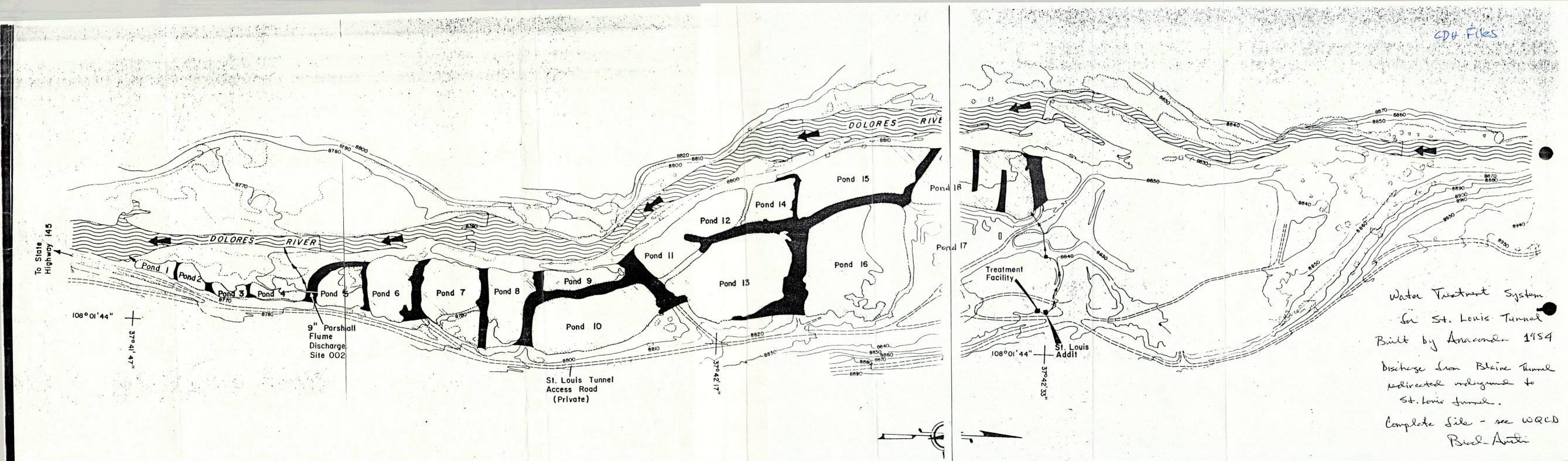
RLD/das

cc: Mr. Wayne Webster and Marion D. Sell Rico Development Corporation P.O. Box 130

Rico, Colorado 81332

Neal Muldoon Muldoon Electric P.O. Box 25 Rico, Colorado 81332

Ms. Judy Bruch Permits and Enforcement Division Colorado Department of Health 4210 East 11th Avenue Denver, Colorado 80220





Januray 20, 1995

### URS CONSULTANTS, INC.

1099 18TH STREET SUITE 700 DENVER, COLORADO 80202-1907 TEL: (303) 296-9700 SAN FRANCISCO SEATTLE DENVER COLORADO SPRINGS SACRAMENTO PORTLAND ANCHORAGE SAN BERNARDINO LONG BEACH LAS VEGAS

NEW YORK CLEVELAND COLUMBUS PARAMUS AKRON AKRON BUFFALO NEW ORLEANS ATLANTA BOSTON VIRGINIA BEACH PITTSBURGH

Mr. Robert Heise Work Assignment Manager U. S. Environmental Protection Agency Region VIII, Superfund Management Branch 999 18th Street Suite 500 8HWM-WAM Denver, Colorado 80202-2405

Subject:

ARCS VI, VII, and VIII, Contract No. 68-W9-0053, WA# 21-8JZZ

Re: Close out of the Rico-Argentine, Rico, Colorado, Site Inspection Prioritization

Dear Mr. Heise:

As per EPA's instructions, we have closed out Rico-Argentine, Rico, Colorado, Site Inspection Prioritization (SIP). As this site is to be reassigned, possibly to URS, as an Expanded Site Inspection (ESI) project, the site files will be kept at URS. This will allow the URS investigator rapid access to the working file data. When the project assignment is decided, URS will dispose of the files appropriately.

If you should have any questions concerning this close-out, please feel free to contact me at (303) 296-9700.

Very truly yours,

URS CONSULTANTS, INC.

Michael V. Carr

Project Manager

cc:

Pat Smith/EPA Region VII Metha Leslie/URS/Denver ARCS File/URS/Denver

w/inventory only w/inventory only

> 881 20 BIO27 Original Copy

### SITE INSPECTION PRIORITIZATION INDEX

- 1) Site Historical Information
  - reports, correspondence, press clippings, interviews, maps, schematics, permits, ownership records, waste characteristics, analytical data
- 2) Correspondence
- 3) Field Information
  - log books, site access agreements, photographs and negatives, field sampling plan
- 4) Health and Safety
  - site health and safety plan, MSDS
- 5) General Site Characterization
  - geology, hydrology, hydrogeology, meteorology, maps
- 6) Interpretative or Final Reports
- 7) Target Information
  - ground water users, surface water users, population data, wetlands maps, land use maps, wind roses
- 8) QA/QC

NOTES: 1 VOL

Date: 01/19/95

41-10-B101 MAY 25, 199		TO:	URS	SUBJ: INFO RE NEW OWNERS OF RICO DEVELOPMENT CORP'S HOLDINGS
41881 41-10-B101 DATE: 1915-1983	4 FROM: COLORADO BUREAU OF MINES	TO:	PUBLIC .	SUBJ: INSPECTOR'S DAILY REPORTS/INFORMATION REPORTS/OPERATOR'S ANNUAL REPORTS
41881 41-10-B101 DATE: 1984-1988	3 FROM: CDH	TO:	PUBLIC	SUBJ: SITE INFORMATION FROM COLORADO DEPT OF HEALTH FILES
41881 41-20-B102 DATE: JAN 20, 199		TO:	: EPA	SUBJ: LETTER RE CLOSEOUT AND TRANSFER OF FILES
41881 41-30-8101 DATE: MARCH 1994 NOTES: 40 PAGES	5 FROM: URS	TO:	URS	SUBJ: LOGBOOK #268 (CARR)
41881 41-50-B101 DATE: SEPT 27, 19		TO:	PUBLIC	SUBJ: CLASSIFICATIONS AND NUMERIC STANDARDS FOR SAN JUAN RIVER AND DOLORES
41881 41-50-B102 DATE: 1905	20 FROM: USGS	TO:	PUBLIC	SUBJ: EXCERPTS FORM "GEOGRAPHY AND GENERAL GEOLOGY OF THE RICO QUADRANGLE"
41881 41-50-B101 DATE: AUG 1974	8 FROM: U.S. DEPT. OF INTERIOR	TO:	PUBLIC	SUBJ: EXCERPTS FROM "GEOLOGY AND ORE DEPOSITS OF THE RICO DISTRICT"
41881 41-50-B101 DATE: 1900	9 FROM: USGS	TO:	PUBLIC	SUBJ: EXCERPTS FROM "GEOLOGY OF THE RICO MOUNTAINS, COLORADO"
41-50-B101 AUG 4, 1975	7 FROM: STATE OF COLORADO	TO:	PUBLIC	SUBJ: RECONNAISSANCE ENGINEERING GEOLOGY REPORT FOR PLANNING DISTRICT 9
41881 41-60-8102 DATE: MARCH 1994	8 FROM: URS	TO:	URS	SUBJ: CERCLA ELIGIBILITY WORKSHEET
41881 41-70-B102 DATE: APRIL 6, 19		10:	PUBL1C	SUBJ: COLORADO WELLS, APPLICATIONS AND RESOURCES/WATER RIGHTS REPORT
41881 41-70-8102 DATE: 1990	5 FROM: U.S. CENSUS BUREAU	S TO:	PUBLIC	SUBJ: HOUSEHOLD, FAMILY AND GROUP QUARTERS CHARACTERISTICS/LAND AREA AND POPULATION DENSITY
41881 41-70-8102 DATE: MAY & JUNE		TO:	URS	SUBJ: INFO RE FEDERALLY LISTED SPECIES NEAR SITE
41881 41-70-B102 DATE: APRIL 13, 1	4 FROM: COLORADO 994 NATURAL HERITAGE PROGRAM	то:	URS	SUBJ: INFO RE SIGNIFICANT NATURAL COMMUNITIES AND RARE, THREATENED OR ENDANGERED SPECIES
41881 41-70-B102 DATE: JUNE 6, 199	-	T0:	URS	SUBJ: INFO RE STATE SENSITIVE WILDLIFE SPECIES NEAR SITE
41881 41-70-B102 DATE: MAY 25, 199		то:	URS	SUBJ: WATER QUALITY AND SEDIMENT DATA ON THE DOLORES RIVER
41881 41-80-B066 DATE: OCT 11, 199		T0:	EPA	SUBJ: REV 0: SITE INSPECTION PRIORITIZATION/RICO-ARGERNTINE, RICO, COLORADO

## EPA CLOSEOUT COPY

# COMPOSITIONS

Rica argentine Mise.
M.V. Carry

### **COLLEGE RULED**



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1099 18th Street, Suite 700 Denver, Colorado 80202 Tel: (303) 296-9700 FAX: (303) 296-6117 A PROFESSIONAL SERVICES ORGANIZATION

MICHAEL V. CARR ENVIRONMENTAL SCIENTIST

### INFORMATION RECORDED IN THE FRONT OF LOG **BOOKS (OPTIONAL)** serial/model #s of equipment (meters) - formulas, constants, example calcs - useful phone #s - site address

DATLY	RECORDING	REQUIREMEN'	S
			_

- \* initials and date (top of every page) prenumbered - start time
  - weather

3,5,0

- decon methods (you may cross reference a previous days method if identical)
  - personnel present on site
  - ppe
- signature of individual recording info
  - ar boll : 15 # - equipment/procedures used
- sample descriptions (time, depth, volume, containers, preserv, etc.)
  - QC samples (field and lab)
  - observations oders, liquids, oughing houth & solate
  - describe each photo as it is token can take labels will you and strike to log book page - field parameters pH, etc.
  - maps/photos drawn or taken
  - form #s\*
  - lost/voided paperwork write down all numbers that are to be voided
  - \* When using a field form information recorded in the field does not need to be written twice. Cross reference the field form # in the log book and record the information only on the appropriate field form.

## DO NOT LEAVE ANY BLANK SPACES/PAGES.

If a page is accidentally left blank or there is unused space at the end of a day's entry draw a diagonal line through the space and initial and date the line.

TDM NO.:
PHOTO NO:
PROJECT NAME:
PROJECT NO.:
PHOTOGRAPHER :
LOCATION :
DATE/TIME/DIRECTION:
ID OF PERSONS IN PHOTO:
COMMENTS/DESCRIPTION :

COD980952519

Latitude 37°42' 05" SE'/4 Sec. 25 T 40N RIIW

0000001

3/22/94 Malane V, Can

Obtained agreement from Ettenger to start work on this site without a signed wat or accounting sheets.

0900 Called Gene Borzick - he will pull CERCLIS files.

- Gene also looked into ERB files - no into on Rico Argentine Andrea McIntosh confirmed this.

Nich Robinson (293-1676)

1130 Nick Robinson called back - 40 RCRA files on this site.

1989. Call Jo Charez or Julie Rodriquez to make appt. to see files. Also need to send/fax a letter request.

PADOLRIC.

3/22/94

CD 9809 52519 LANGE START START START THON THOU SOUND 0.000 32/94 Holalin 3/23/94 Malead V. Can Wed. 1170 Arrived LAI to review files & Zinches Hick The Staible was EPA Project Officer E/E - Hargaret Babits 1984 CDH - WQCD has files from Angeonda Hinerals Co. which took over site in 1980. They have a NPDES permit for discharge from St. Lais Tunnel. (Co-0029793 15 med : 1982) Located on portions of Sec. 24 25, TAON, RILW.

3/24/94 Michael V. Can

1230 Called Consus Bureau of ordered population data.

1500 Called Carl Hount at Colo. Dept. of Mural & Geology - left massage.

1615 Andrea Ma Inteste called - she doosn't have anything on Rico-A & doesn't know about the spill list/wastelan II. Try calling Wick Rybinson back closel it.

Aug Range Control of the Control of

0000 4 Michael V. Care 3/25/94 Spent large part of day at uses Library & buying topos. Library had surpriselingly amount of into on Rico area. VI) Reconnaissant Engineerry Geology Report for Planing Profriet 9, Stale of Colo., Colo. Ged. Survey, papered of for CGS & Cd. Div. of Planming by FH. Fox & Associates, 1973 Found of copied relacted pages, 12) USGS Annual Rpt, No. 21, Partz, p. 15-165, "Geology of the Rie Hus, Colo, " by Whitmen Cross and Arthur Coa Spencer, 1900 found of copied selected pages. 18) uses Professional Paper 723. "Geology for Peposits of the Ric District, Colorado. Edwin T. Melangut - 1974. Found & copied selected pages. VA) USGS Folio 130. Discription of the Rico Quadrangle, by Whitmm Cross and F.L. Ransome 1905 Found Logded Selected pages . 5) Identification of Remoderation of a Mine Flowling Problem, Rios, Colo with a Discussion on the Use of Tracer Dyas. M.W. Pavis Colo, Geo, Survey 1991. - Could not find. 67 CGS: Geolog of the Done Creak Area No - too for west RIGW & RZOW

3/25/24 MUL

000005

3/28/94 Whehall Can
COU called - PA file on Rico is ready

The ak

0008~6 Milail V. Com 3/29/94 Arrived CDH to review files Very little new in the site fite. - a different geology refi Van Derwift, J.W. 1947. Hinsal Rocs of CO? - CDH copy of E/E SAR is slightly different and has a Jate of Jan. 25/1985 on it. (CERCLIS fite = 12/21/89) Open file for courty doesn't have any extra into. 1300 Went back to USGS - couldn't find above ref - looked like it was checked out. 1400 West to ESIC - no wetlands maps avoidable for area. Went to FEMA - couldn't find anyone to help ne. 1600 Back in office - Carl Mount had called 866-3567 Called back-busy-laft message, 1630 Hount called back Jim Stevens - handles southern Colorado. - However - us parmit so he doesn't believe thre is anything for me to love at - Manut suggested I call Forest Service BLM (Charles Fair (719) 275-0631) Also try B of Rec in Durango (Stan Powers (303) 785-6555) 3/24/84 MVC

3/30/94 Whehiel Vi Can

0900 Called Jin Stevens at CDMG - No permit or files on the site. Suggested I call Office of Mines, Joe Nugent 880. 2983. Noticed a Rico Ranger Station on the 7.5" topo. Forest Service may have interest in mine.

To the state of th

A/1/99

Michial V. Com

Faxed map of request to keatie Paque at Colo. Natural Heritage Program Fax # 492-5105

Called Brain Hyde (866-3441) at let Conservation Board of Pept. of N+1 Rscs for FIRM maps - left message.

Called Kuthleen Reilly (692-3500) CDH wqeD at wellhead protection districts - left message.

Spent 11/2 hours w/ Tany Selle - EPA's GID specialist - he agrees that they probably cannot help us in site assessment except for major metro areas such as Denver & Salt habe. Would that to see us contribute data we collect of give it to him to baild databases. Start dialogue w Pat Swith Heise Poul Arell.

1100 Called Kuthleen Reilly back - she said that Brighton and Ff. hupton are two areas that have been proposed as Wellhead

Eupton are two areas that have been proposed as Wellhead Protection Frens for Classification but are not yet protected areas. Nothing for Rico area.

1430 Went to State Eng to begin copying well logs.

#//24 MVC

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4/5/94 Malal V. Can

1530 Called Dave Weber (291-7231) & left message. He will be in tomorrow morning. I left message about what I need.

1535 Called BLM - anarles Fair - (719) 275-0631 - he said to call regional office in Montrose - District Geologist (hordrock) Ben Sprouse.

1540 Called Sprouse - (303) 249-7791 - site is not on BLM land so no info. Could try BLM Records of Survey in Denver office or try Dolores Country Courthouse for ownership records.

1550 Called Joe Nugent - Dept. of Minerals of Geology - Office of Mines 880-2983 May have a file on the R-A, last inspected after renediction. Office at 1713 Sherman has file on micofiche.

1500 Called B. of Reclamation in Durango - Stan Powers - (303) 385 - 6555 Back in aftire on Thursday. - Call back

1/5/84 MUC

4/6/94 0930 Dave Weber called back - they can provide into that Heritage may not have such as sensitive environments (wetlands. Heritage can provide plants/insects/communities that CDOW doesn't have. They will overlap on wildlife sightings Call regional buologists 1030 Called Bob Clark - CDOW Hontrose - (303) 249-3431 fex 249-2857 Call back Monday. 1105 Called Janet Coles - Colo. State Parks, Colo Hatural Area Inventory 866-3203 x 330 Left message to call me back. 1110 Called Forest Service office in Durange - referred us to Dolones 1112 Called Forcet Service office in Dolores - (303) 882-7296 John Reidinger Call back this PM. The Sea Parice